

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247593

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120850 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8252.0 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

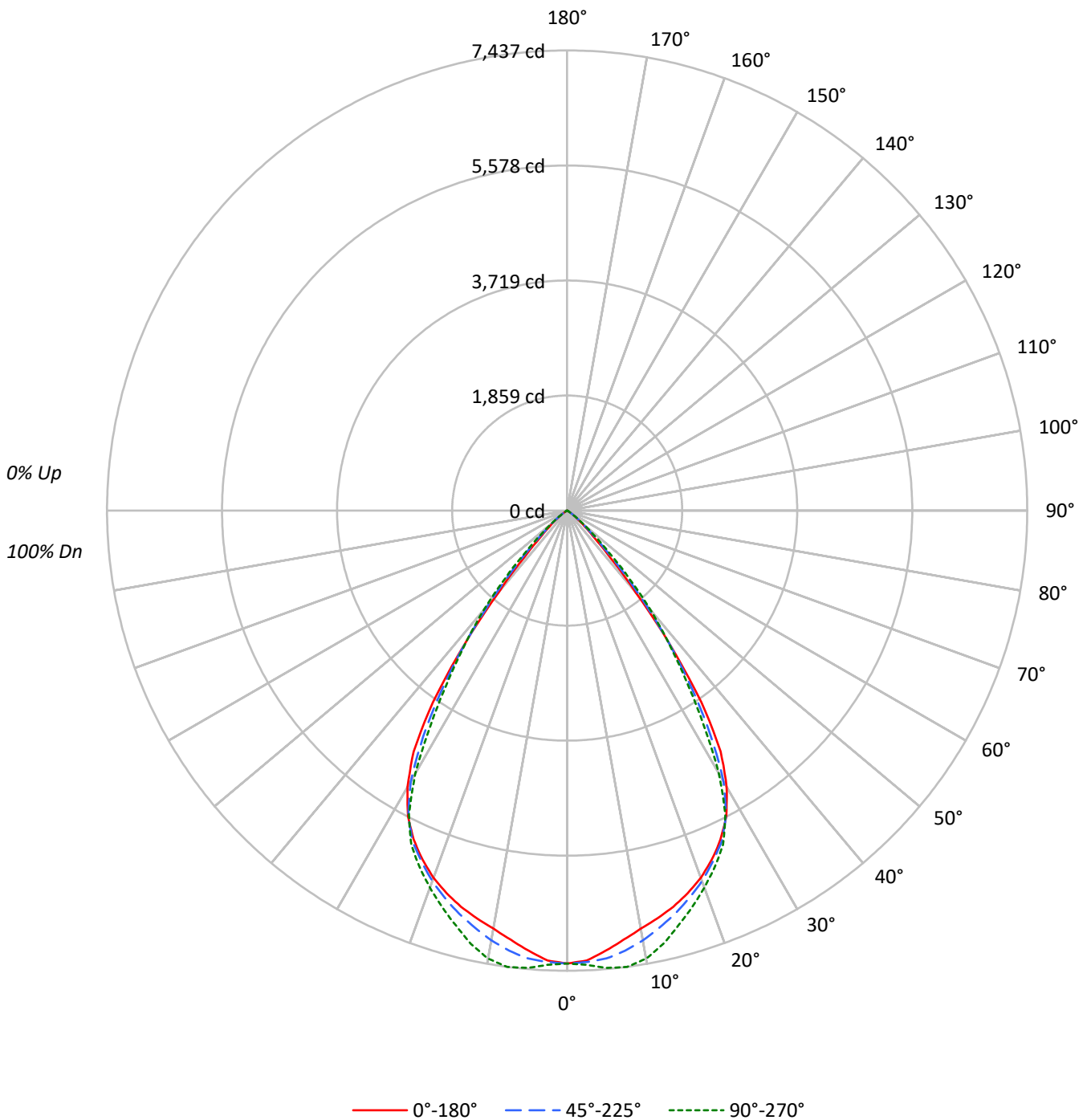
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247593

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247593

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBW0B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	225703	225703	225703
5°	221068	224947	229658
10°	214838	220822	230212
15°	211561	215325	221659
20°	207232	209142	212765
25°	199582	201004	202780
30°	183627	180067	174754
35°	142288	132572	125942
40°	69140	78447	84034
45°	26745	34425	41712
50°	12526	14315	16392
55°	5215	5618	5774
60°	1752	1659	1566
65°	219	328	328
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P247593

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.0	8.3
10°-20°	1904.0	23.1
20°-30°	2682.8	32.5
30°-40°	2170.5	26.3
40°-50°	689.0	8.3
50°-60°	110.2	1.3
60°-70°	7.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5274.8	63.9
0°-40°	7445.3	90.2
0°-60°	8244.5	99.9
0°-90°	8252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7319	7319	7319	7319	7319	
5°	7142	7175	7267	7373	7419	673
15°	6627	6652	6745	6873	6943	1866
25°	5866	5876	5908	5940	5960	2678
35°	3780	3677	3522	3395	3346	2241
45°	613	662	789	901	956	571
55°	97	98	104	109	107	101
65°	3	4	4	4	4	7
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247593

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7319.4	7319.4	7319.4	7319.4	7319.4
2.5°	7277.6	7285.0	7302.9	7337.3	7347.7
5°	7141.8	7174.6	7267.1	7373.1	7419.3
7.5°	6995.5	7038.8	7174.6	7353.7	7437.2
10°	6861.2	6907.5	7052.3	7243.3	7352.2
12.5°	6747.8	6783.7	6901.5	7073.1	7174.6
15°	6627.0	6652.3	6744.9	6873.2	6943.3
17.5°	6482.2	6504.6	6565.8	6665.8	6719.5
20°	6315.1	6321.1	6373.3	6437.5	6483.7
22.5°	6107.7	6113.6	6143.5	6204.7	6236.0
25°	5865.9	5876.4	5907.7	5940.5	5959.9
27.5°	5569.0	5573.5	5558.5	5531.7	5537.6
30°	5157.1	5140.7	5057.1	4942.2	4907.9
32.5°	4616.9	4508.0	4327.5	4166.3	4100.6
35°	3779.8	3676.8	3521.7	3394.8	3345.6
37.5°	2715.8	2723.3	2712.9	2684.5	2690.5
40°	1717.6	1786.2	1948.8	2054.8	2087.6
42.5°	1031.1	1105.7	1284.8	1428.1	1474.3
45°	613.3	662.5	789.4	901.3	956.5
47.5°	393.9	417.8	480.5	546.2	577.5
50°	261.1	273.1	298.4	328.3	341.7
52.5°	167.1	171.6	183.5	194.0	204.4
55°	97.0	98.5	104.5	108.9	107.4
57.5°	50.7	50.7	50.7	50.7	50.7
60°	28.4	26.9	26.9	26.9	25.4
62.5°	13.4	13.4	13.4	11.9	11.9
65°	3.0	4.5	4.5	4.5	4.5
67.5°	0.0	0.0	0.0	0.0	1.5
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)